

Fig. 1

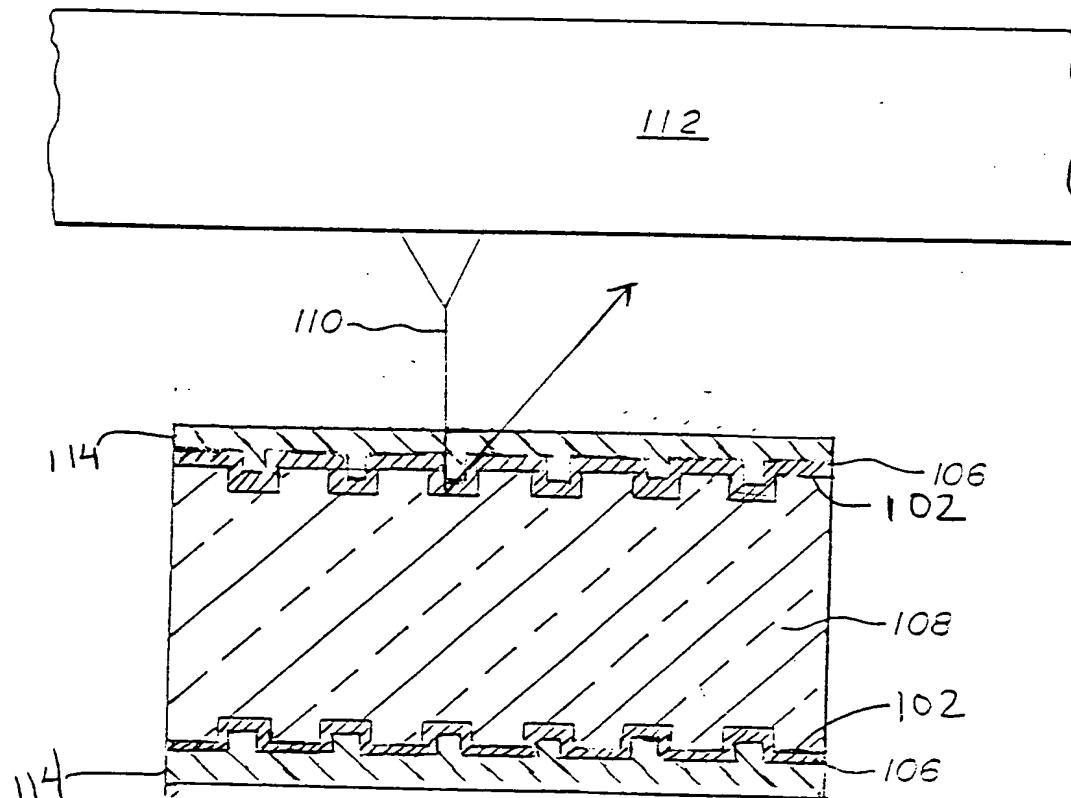
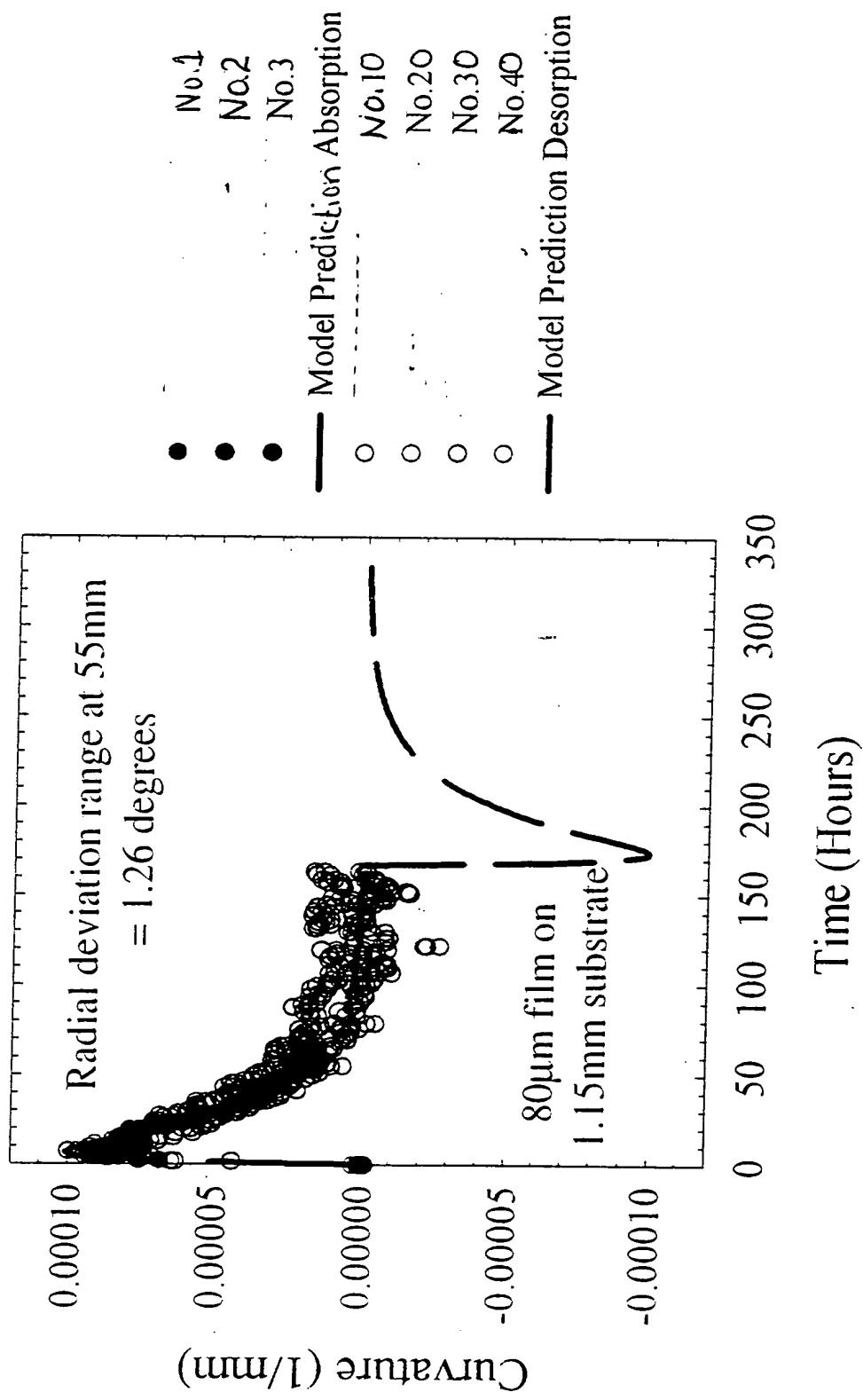


Fig. 2

Figure 3

25<sup>o</sup>C and 50% rh - 25<sup>o</sup>C and 90% rh - 25<sup>o</sup>C and 50% rh



$$\text{Radial Deviation (deg)} = 360 \cdot \text{Curvature} \cdot \text{radius} / \pi$$

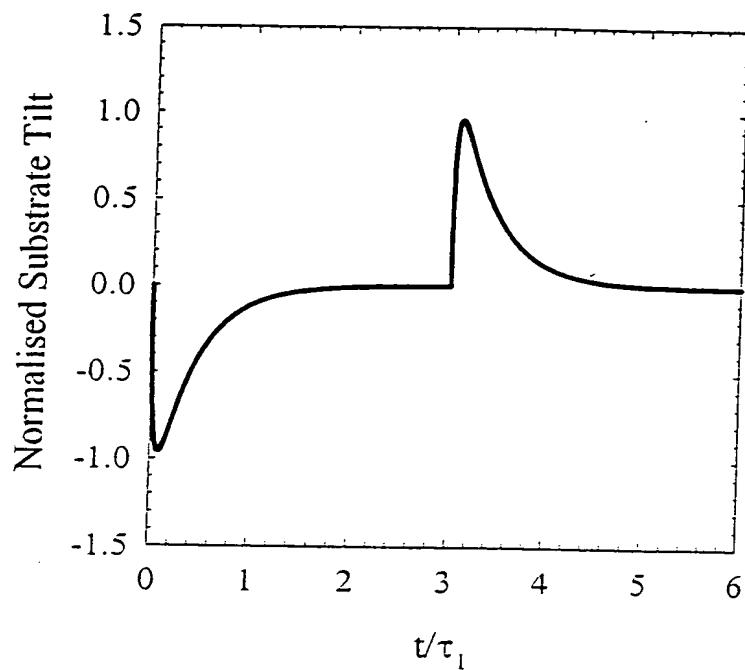


FIGURE 4

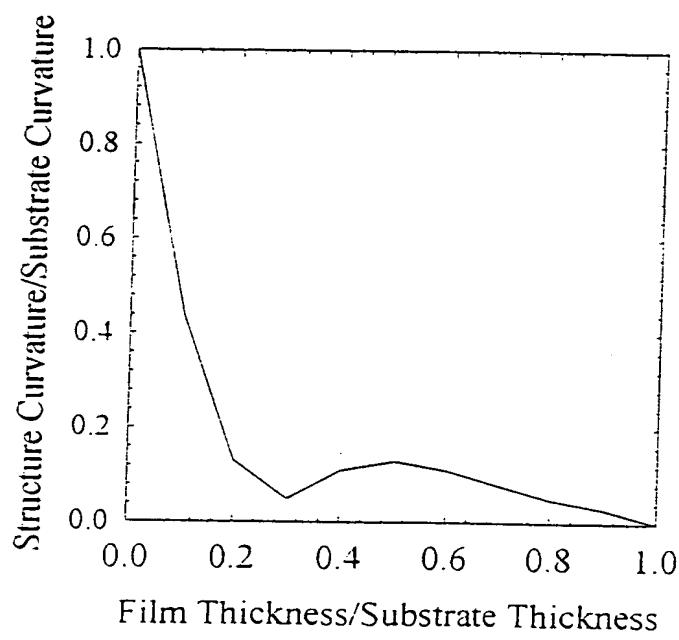
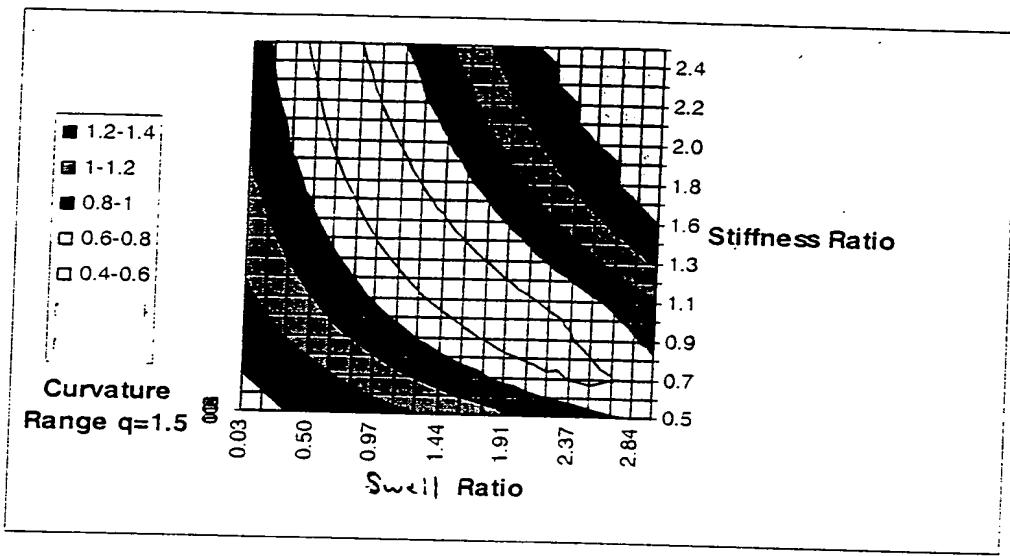
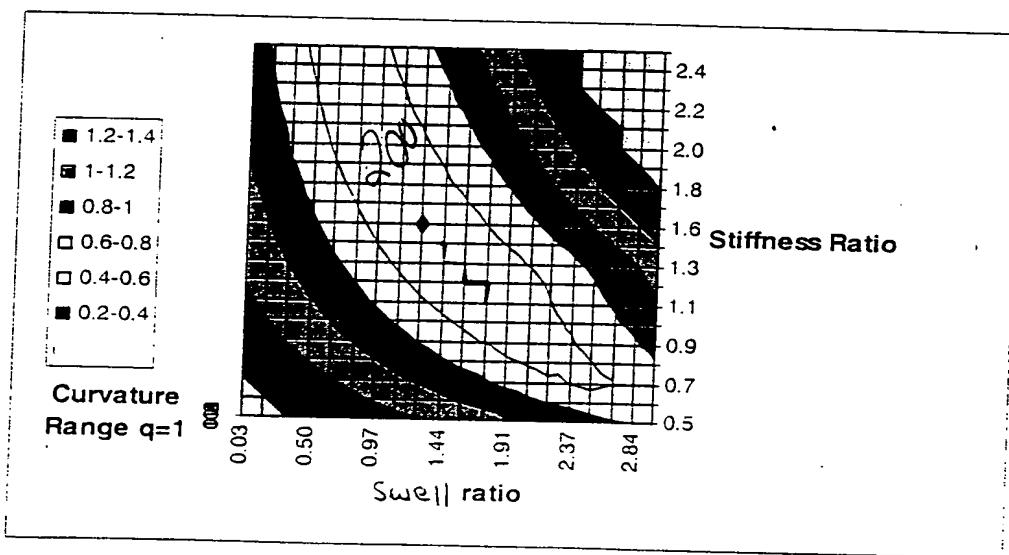


FIGURE 5



**Figure 6.** Curvature Ratio Contour Map at a diffusion ratio of 1.5.



**Figure 7.** Curvature Ratio Contour Map at a diffusion ratio of 1.

# Figure 8

## Mismatched System - identical substrate

25°C and 50% rh - 25°C and 90% rh - 25°C and 50% rh

Film Ratios			
Thickness	$\rho$	0.070	
Stiffness	$\gamma$	1.3985496	
Swell	$\delta$	1.9999845	
Diffusivity	$q$	0.930049	

